

*Sub  
a18*

CLAIMS

1           1. A method for determining a cost differential  
2           resulting from migrating computational processing capacity  
3           from a first computer platform to a second computer  
4           platform, the method comprising the steps of:

5                 providing information on usage for said first computer  
6                 platform and for said second computer platform;

7                 determining, based upon said provided information, the  
8                 required processing capacity for said first computer  
9                 platform and said second computer platform;

10                deriving a cost and capacity measurement for said first  
11                computer platform and for said second computer platform;

12                determining an amount of said required processing  
13                capacity to be migrated from said first computer platform  
14                and an associated amount of said required processing  
15                capacity to be migrated to said second computer platform;  
16                and

17                deriving a cost and capacity measurement for said first  
18                computer platform after said migration and for said second  
19                computer platform after said migration.

1           2. A method according to claim 1 wherein said provided  
2           usage information include current and planned usage for said  
3           first computer platform and for said second computer  
4           platform.

1           3. A method according to claim 1 wherein said providing  
2 step further includes the steps of:

3           providing any available information on current and  
4 planned use of computers and computational workloads for  
5 said first computer platform and said second computer  
6 platform; and

7           providing any available information on current and  
8 planned cost for said first computer platform and for said  
9 second computer platform.

1           4. A method according to claim 3 wherein said current  
2 and planned cost includes costs associated with hardware and  
3 software and support required for said first computer  
4 platform and for said second computer platform.

1           5. A method according to claim 3 wherein an available  
2 portion of said information on said current and said planned  
3 use of computers, computational workloads and cost may be  
4 provided and wherein a remaining portion of said information  
5 is generated using a data model for said information.

1           6. A method according to claim 5 wherein said step of  
2 determining said required processing capacity further  
3 includes using a processing data model to relate said  
4 information on said use of computers and computational  
5 workloads on said first computer platform and said second  
6 computer platform to respective measures of required  
7 processing capacity therefor.

1           7. A method according to claim 6 wherein said data  
2 model includes industry average information on use and cost  
3 and said processing data model includes the Transactions Per  
4 Minute metric.

1           8. A method according to claim 1 wherein said required  
2 processing capacity to be migrated from said first computer  
3 platform and said associated required processing capacity to  
4 be migrated to said second computer platform is associated  
5 with the migration of one or more computational workloads  
6 from said first computer platform to said second computer  
7 platform.

1           9. A method according to claim 1 wherein said deriving  
2 step further includes the steps of:

3           combining said usage information and said determined  
4 required processing capacity to produce a first value for  
5 the capacity and cost associated with the first computer  
6 platform, and a second value for the capacity and cost  
7 associated with said second computer platform, as well as a  
8 total value for capacity and total cost associated with the  
9 aggregate of said first and second computer platforms.

1 10. A method according to claim 9 further including the  
2 steps of:

3 calculating a post-migration first value for the  
4 processing capacity and cost associated with the first  
5 computer platform after said migration and a post-migration  
6 second value for the processing capacity and cost associated  
7 with said second computer platform after said migration as  
8 well as a post-migration total value for the total  
9 processing capacity and total cost associated with the  
10 aggregate of said first and second computer platforms after  
11 said migration.

1 11. A method according to claim 10 wherein the step of  
2 calculating the post migration values further includes  
3 determining a cost savings resulting from the migration of  
4 the capacity from the first computer platform and the  
5 additional cost resulting from the migration of the  
6 associated processing capacity to the second computer  
7 platform.

1 12. A method according to claim 3 wherein said current  
2 and planned cost information further include the cost  
3 associated with the availability characteristics of said  
4 first computer platform and said second computer platform.

1 13. A method according to claim 3 wherein said planned  
2 information on use of said computers as well as said  
3 computational workloads and said planned information on said  
4 costs is provided for a period of time to enable an analysis  
5 of the time variant cost of a migration of at least one of  
6 said computational workloads.

1           14. A method according to claim 6 further including the  
2 steps of :

3           retaining the provided information and said cost and  
4 capacity measurements associated with successive iterations  
5 of said method; and

6           using said retained information and said retained  
7 measurements to successively refine the data model and the  
8 processing data model.

09386057 083099  
650E80" 25098E60

1           15. A program storage device readable by a digital  
2 processing apparatus and tangibly embodying a program of  
3 instructions executable by the digital processing apparatus  
4 to perform method steps for determining a cost differential  
5 resulting from migrating computational processing capacity  
6 from a first computer platform to a second computer  
7 platform, the method steps comprising:

8           providing information on usage for said first computer  
9 platform and for said second computer platform;

10           determining, based upon said provided information, the  
11 required processing capacity for said first computer  
12 platform and said second computer platform;

13           deriving a cost and capacity measurement for said first  
14 computer platform and for said second computer platform;  
15 and

16           determining an amount of said required processing  
17 capacity to be migrated from said first computer platform  
18 and an associated amount of said required processing  
19 capacity to be migrated to said second computer platform;

20           deriving a cost and capacity measurement for said first  
21 computer platform after said migration and for said second  
22 computer platform after said migration.

1           16. A program storage device according to claim 15  
2 wherein said provided usage information include current and  
3 planned usage for said first computer platform and for said  
4 second computer platform.

1           17. A program storage device according to claim 15  
2 wherein said providing method step further includes the  
3 method steps of:

4           providing any available information on current and  
5 planned use of computers and computational workloads for  
6 said first computer platform and said second computer  
7 platform; and

8           providing any available information on current and  
9 planned cost for said first computer platform and for said  
10 second computer platform.

1           18. A program storage device according to claim 17  
2 wherein said current and planned cost includes costs  
3 associated with hardware and software and support required  
4 for said first computer platform and for said second  
5 computer platform.

1           19. A program storage device according to claim 17  
2 wherein an available portion of said information on said  
3 current and said planned use of computers, computational  
4 workloads and cost may be provided and wherein a remaining  
5 portion of said information is generated using a data model  
6 for said information.

1           20. A program storage device according to claim 19  
2 wherein said method step of determining said required  
3 processing capacity further includes using a processing data  
4 model to relate said information on said use of computers  
5 and computational workloads on said first computer platform  
6 and said second computer platform to respective measures of  
7 required processing capacity therefor.

1           21. A program storage device according to claim 20  
2 wherein said data model includes industry average  
3 information on use and cost and said processing data model  
4 includes the Transactions Per Minute metric.

1           22. A program storage device according to claim 15  
2 wherein said required processing capacity to be migrated  
3 from said first computer platform and said associated  
4 required processing capacity to be migrated to said second  
5 computer platform is associated with the migration of one or  
6 more computational workloads from said first computer  
7 platform to said second computer platform.

1           23. A program storage device according to claim 15  
2 wherein said deriving method step further includes the  
3 method steps of:

4           combining said usage information and said determined  
5 required processing capacity to produce a first value for  
6 the capacity and cost associated with the first computer  
7 platform, and a second value for the capacity and cost  
8 associated with said second computer platform, as well as a  
9 total value for capacity and total cost associated with the  
10 aggregate of said first and second computer platforms.



1           24. A program storage device according to claim 23  
2 further including the method steps of:

3           calculating a post-migration first value for the  
4 processing capacity and cost associated with the first  
5 computer platform after said migration and a post-migration  
6 second value for the processing capacity and cost associated  
7 with said second computer platform after said migration as  
8 well as a post-migration total value for the total  
9 processing capacity and total cost associated with the  
10 aggregate of said first and second computer platforms after  
11 said migration.

1           25. A program storage device according to claim 24  
2 wherein the method step of calculating the post migration  
3 values further includes determining a cost savings resulting  
4 from the migration of the capacity from the first computer  
5 platform and the additional cost resulting from the  
6 migration of the associated processing capacity to the  
7 second computer platform.

1           26. A program storage device according to claim 17  
2 wherein said current and planned cost information further  
3 include the cost associated with the availability  
4 characteristics of said first computer platform and said  
5 second computer platform.

1           27. A program storage device according to claim 17  
2 wherein said planned information on use of said computers as  
3 well as said computational workloads and said planned  
4 information on said costs is provided for a period of time  
5 to enable an analysis of the time variant cost of a  
6 migration of at least one of said computational workloads.

1           28. A program storage device according to claim 20  
2 further including the method steps of :

3           retaining the provided information and said cost and  
4 capacity measurements associated with successive iterations  
5 of said method; and

6           using said retained information and said retained  
7 measurements to successively refine the data model and the  
8 processing data model.

09386057 083099

1           29. A system for determining a cost differential  
2 resulting from migrating computational processing capacity  
3 from a first computer platform to a second computer  
4 platform, the system comprising:

5           a storage base for providing information on usage for  
6 said first computer platform and for said second computer  
7 platform;

8           means for determining, based upon said provided  
9 information, the required processing capacity for said first  
10 computer platform and said second computer platform;

11           means for deriving a cost and capacity measurement for  
12 said first computer platform and for said second computer  
13 platform;

14           means for determining an amount of said required  
15 processing capacity to be migrated from said first computer  
16 platform and an associated amount of said required  
17 processing capacity to be migrated to said second computer  
18 platform; and

19           means for deriving a cost and capacity measurement for  
20 said first computer platform after said migration and for  
21 said second computer platform after said migration.